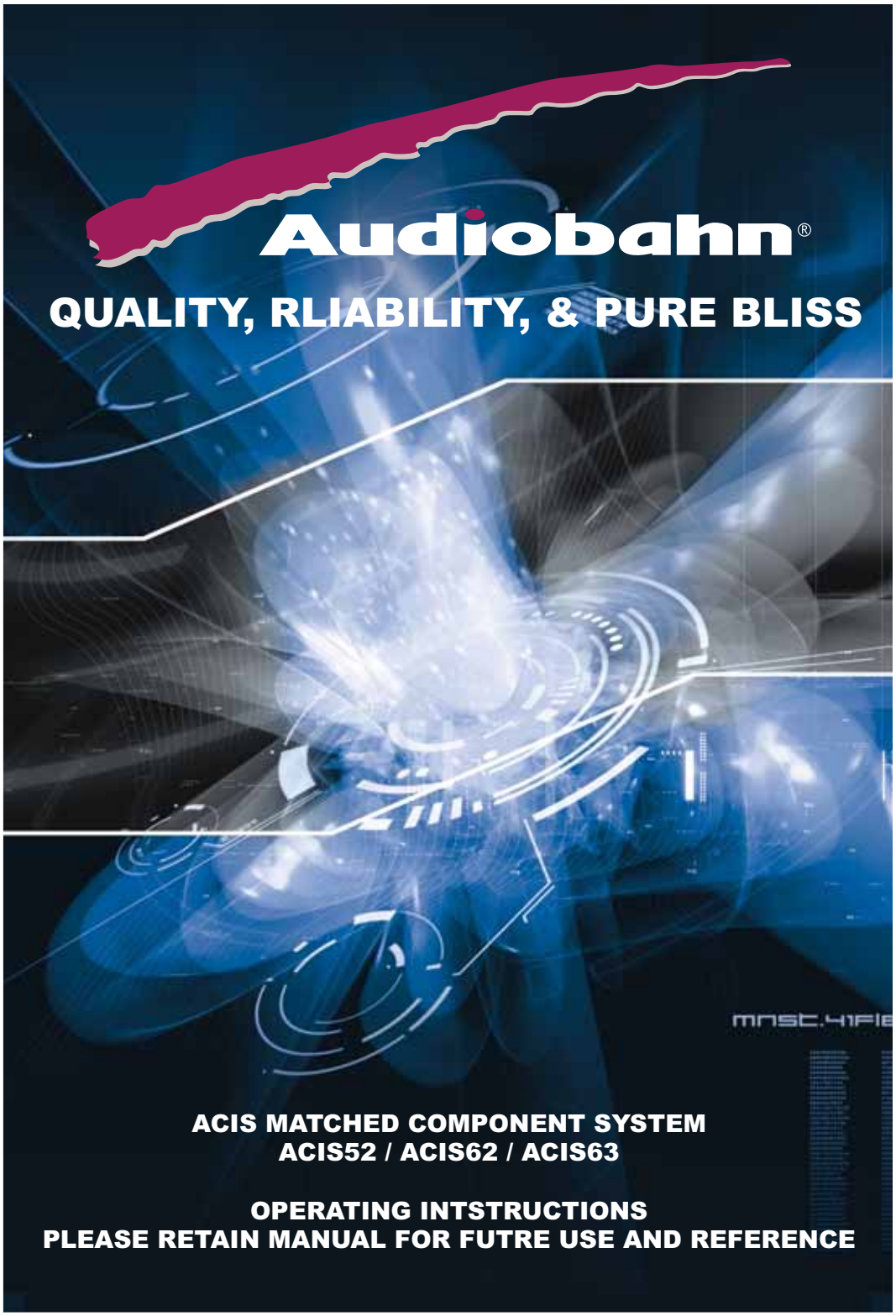
Audiobahn®
QUALITY, RLIABILITY, & PURE BLISS
ACIS MATCHED COMPONENT SYSTEM
ACIS52 / ACIS62 / ACIS63
OPERATING INTSTRUCTIONS
PLEASE RETAIN MANUAL FOR FUTRE USE AND REFERENCE

Deprive yourself no further...

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www.audiobahninc.com

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Introduction

Thank you for purchasing an Audiobahn Matched Component Speaker System, specifically designed for the mobile environment. This manual contains important information about hook-up and set-up procedures and integrating this unit into your car stereo system. With propercare and Installation, this Matched Component Speaker System will provide you with many years of high performance listening enjoyment.

Before making any electrical connections, make sure that you disconnect the battery's ground cable to prevent the possibility ofshort circuits or damage to your electronic equipment.(if your stereo has an Anti-theft code DO NOT disconnect the battery.)

Features and specifications

FEATURES

WOOFER

Custom Tool Cast Aluminum Basket
Chrome Plated Magnetic Plates
High Grade Strontium Ring Magnet
Gray Polyurethane Half Roll Rubber Edge
Gray Woven Glass Fiber Cone
2 Layer CCAW 4 Ohm Voice Coil
High-Temp Coating Glass Fiber Former
Copper Faraday Ring In Motor Design

TWEETER

Custom Tool Cast Aluminum Mounting Plate
High Temp Neodymium Ring Magnet
Ferro Fluid Used For Dampening Resonance
FEA Reverse Polyurethane Edge
Custom FEA 1" Concave Aluminum Dome
2 Layer CCAW 4 Ohm Voice Coil
High-Temp Coating Glass Fiber Former
Copper Faraday Cap In Motor Design

MID-RANGE

Custom Tool Cast Aluminum Basket
Chrome Plated Magnetic Plates
High Temp Neodymium Ring Magnet
Custom Gray Polyurathane/Foam Flat Edge
Gray Woven Glass Fiber Cone
2 Layer CCAW 4 Ohm Voice Coil
High-Temp Coating Glass Fiber Former
Copper Faraday Cap In Motor Design

CROSSOVER

Custom Tool Clear Injection Molded Casing
12V / Remote Input Design For LED Illumination
Heavy Gauge Terminal For High Power Input
EQ Circuit Design For Resonance Dampening
L-Pad Circuit Design To Attenuate Loud Drivers
Precise Filter Design To Control Sound Overlap
Multiple Fuse Design To Protect All Component
Complete Wiring and Mounting Hardware

SPECIFICATIONS

POWER HANDLING

ACIS-52: 160 RMS
ACIS-62: 200 RMS
ACIS-63: 320 RMS

SENSITIVITY

ACIS-52: 90dB +/-**3dB**
ACIS-62: 91dB +/-**3dB**
ACIS-63: 91dB +/-**2dB**

FREQUENCY

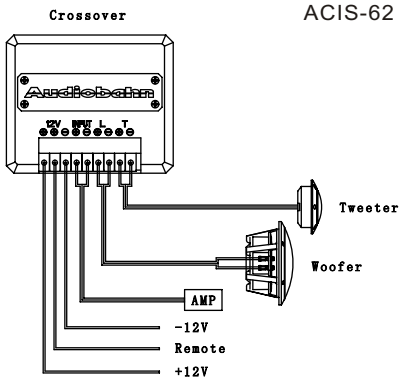
ACIS-52: 35Hz - 35kHz
ACIS-62: 30Hz - 35kHz
ACIS-63: 30Hz - 35kHz

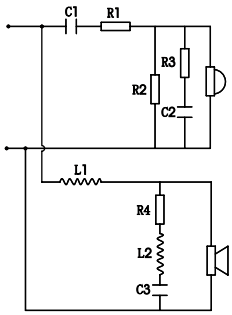
FILTER RESPONSE

ACIS-52: 2000Hz - 12dB Octave
ACIS-62: 2000Hz - 12dB Octave
ACIS-63: 350Hz & 4.5KHz - 12dB Octave

ASSEMBLY MANUAL

ACIS-52
ACIS-62





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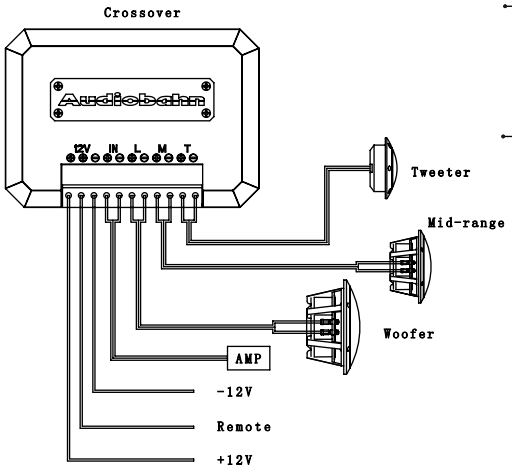
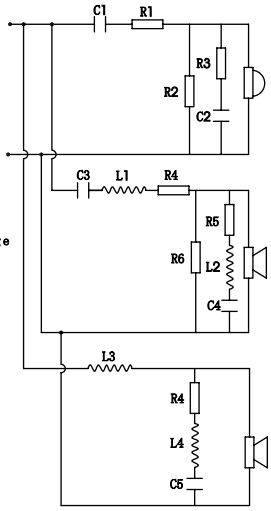




WIRING

Audiobahn recommends using at least 18-gauge with your new speaker system. Thinner gauge wire may easily be severed and can cause damage to your system should any bare wire come in contact with the vehicles chassis.

Make sure that your audio system is off while installing and connecting your new Audiobahn speakers. Failure to do so could result in damaging the speaker beyond repair.

Be sure to route the wires to the speakers with the insulated terminals ending at the speaker. This will insure a good contact with the speaker. If you need to shorten the speaker lead, do so at the opposite end of the insulated terminals or the bare end.

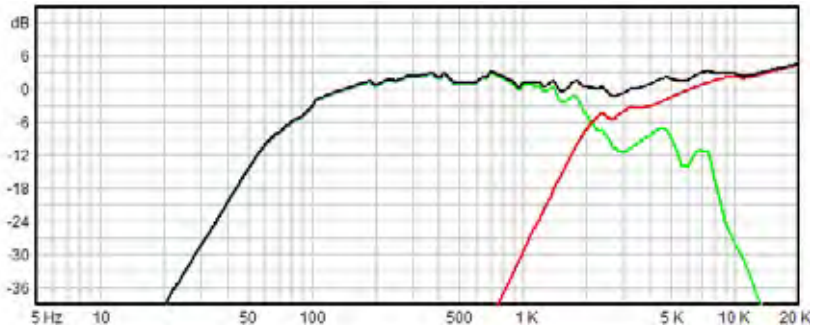
Be sure the polarity is correct at all times. The speaker leads are color coded for negative and positive. Be sure that the leads connected to the positive terminal of your amplifier or source unit is correctly connected to the positive terminal of the speaker.

To insure long-term reliability all bare wires and wire-to-wire connections should be soldered and insulated with heat shrink or electricians tape. Under no circumstances should you leave any bare wires uncovered, as this can and will lead to the damage of your speakers.

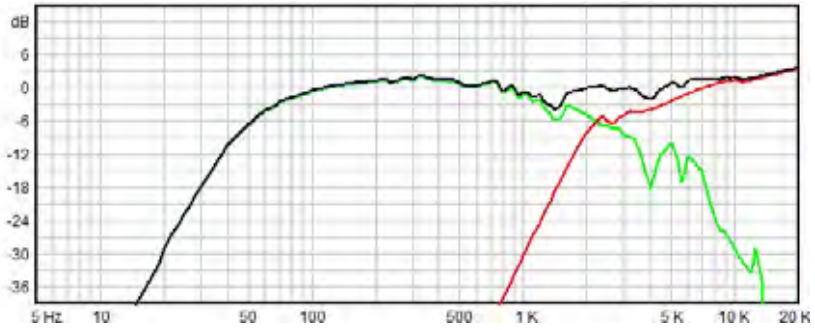
When mounting in a door it is imperative to have the right amount of slack in the connecting wire as to not get crimped or torn when door is opened or closed. Avoid areas of the door jam that pinch, this will cause damage to the speaker over long-term use.

Once the speaker wiring is complete you can connect the opposite end to the source unit or amplifier. Again, be sure to observe the correct polarity. Solder and wrap all stripped connections.

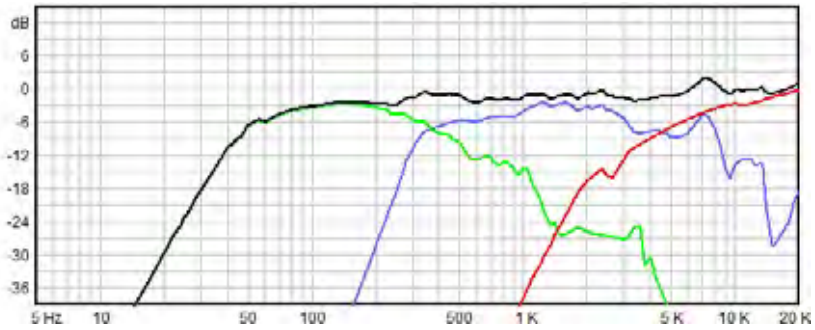
Audiobahn ACIS-52 Component Frequency Response



Audiobahn ACIS-62 Component Frequency Response

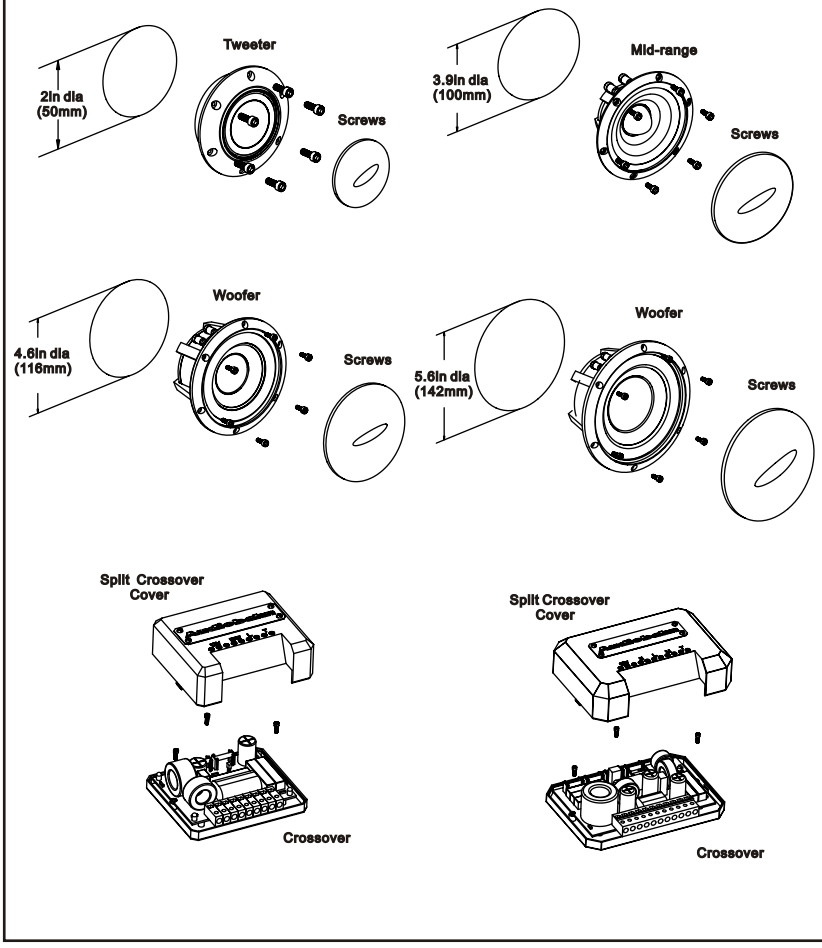


Audiobahn ACIS-63 Component Frequency Response



ASSEMBLY MANUAL

ACIS-52
ACIS-62
ACIS-63



INSTALLATION

NOTE: Audiobahn strongly recommends that you operate your system at low volumes prior to the completed installation of your Audiobahn speakers. This will allow a test of the speaker before securing it to its permanent location.

CAUTION: Make sure that all speaker wiring is fully protected from cuts, tears and possible wear. All short circuits developing as a result could severely damage the source unit or possibly the amplifier. Make sure all speaker wires easily reach the speaker terminal with no stress on the wire or connectors.

****MOUNTING**

1. Confirm the mounting location and depth requirements by inspecting the area where the speaker will be mounted. Most speakers will fit into stock locations on the vehicle, in this case only depth is important.
2. If the location you have picked dose require cutting, you may use the supplied template to help you locate and make the mounting location and cuts to be made. Be careful when cutting out the template. If you cut the Template properly, the speaker will be a perfect fit.
3. If there is a cosmetic panel where the speaker will be mounted, we recommend using a utility knife to carefully cut a hole in it. Confirm the cut by placing the speaker in the hole. You may modify the holes as necessary.
4. If it will be necessary to cut steel, reinstall the cosmetic panel in place and use the hole you have previously cut as a template. This will help to insure proper cutting and a good fit. Mark the location for the speaker mounting screws, remove the panel and drill the screw holes. When finished you may replace the panel.
5. After cutting and drilling all holes, inspect the mounting areas for any metal burrs or rough edges. File any area that may interfere with the mounting of the speaker.
6. Clean any metal shavings form the mounting area and check for areas in which water may enter the speaker cavity. Treat the area for water protection when necessary.

Make sure your source unit (Cassette, CD, DAT, DVD, etc.) is turned off while connecting the speaker terminals. Turn on the various components and slowly advance the volume. Remember to check and recheck all connections to insure proper use.

SECURING THE SPEAKER

Once you have tested your system and have confirmed that it is operating properly, turn off your system and prepare for the final mounting of the speakers.

1. Position the speaker into the mounting hole and reconfirm the correct mounting location and hole placement. Screw clips are provided to insure a snug fit. Place screw clips over the metal surface and line up the hole with the hole you have previously drilled. Place the speaker into the hole, align the mounting holes and proceed to insert the screws. Be sure to tighten the screws evenly as not to warp the speaker frame.
2. Turn you system back on and confirm the speakers operation, first at low volume and then you may increase the volume, as you desire.

WARNING:

It is extremely important that the mounting ring is correctly installed around the speaker. You may notice differences in the inner shape of the grill. These cutouts are so the bridges holding the tweeters and or mids do net touch. You should be able to see the bridge unobstructed when the ring is mounted.

CHOOSING A LOCATION

It is always best to plan the complete installation prior to attempting to install any product. The routing of wires, power connections and mounting locations should be planned first. As with any car stereo installation, all work performed should be checked thoroughly and carefully prior to the operations of the system.

The placement of your Audiobahn speakers within your vehicle will greatly affect the overall performance of your audio system. Every vehicle is different, so installation into particular locations of the vehicle may net be possible without modifications. Factory provided locations are generally preferable due to ease of installation. In all cases speakers should be placed in a location free of obstruction by body panels, window cranks, storage compartments or anything that may hinder the speakers performance. Avoid areas that do not provide a flat, sturdy mounting surface.

Audiobahn speakers are designed to fit in almost any factory location. Again, if at all possible it is recommended that you use a factory location. This applies mostly to later model vehicles. For those earlier models that do net have factory locations or are limited to front locations it is recommended that you choose an area with sufficient air space.

If you allow an insufficient amount of air space, the speaker may not reproduce low frequencies very well. It is recommended to mount the speakers in door panels, kick panels, rear decks etc. Ideally the speaker should be mounted where it will be in an enclosed airspace, allowing for extended bass response.

TROUBLE SHOOTING

In the event that your Audiobahn speakers appear to require service we ask that you first do a little trouble shooting to determine if the problem is actually the speaker or a problem located in a different part of the vehicle such as the amplifier, wiring, fusing or possibly the source unit.

If your Audiobahn speakers have been installed professionally by an Authorized Audiobahn Retailer we re commend that your return to the retailer and demonstrate the problem to a qualified installer or repair technician. If you installed the speaker yourself, use the following guidelines to help find the problem.

1. **No sound**
*Check the source unit or amplifier for power and be sure they are operating properly.
*Check all signal connections.
*check for any wiring that may be shorting together or touching the metal chassis.
*check all ground connections.
2. **Distorted Sound At All Volumes**
*Check for bad speaker connections.
*Check wiring for correct polarity.
3. **Distorted Sound At High Volumes Only**
*Check for loose mounting of the speaker.
*Inspect the speaker for debris in the cone or other obstructions.
*Check the woofer cone for any damage or defects.
4. **Poor Bass Response**
*Check wiring for correct polarity.
*Check for unstable or loose mounting surface.
*Check Bass & Treble controls at the source unit or amplifier.
5. **Poor High Frequency Response**
*Check wiring for correct polarity.
*Check Treble control or EQ settings.
*Check the Tweeter for possible damage.

WARNING

Investigate the layout of your automobile thoroughly before drilling or cutting. Take care when you work near the gas tank, gas lines, hydraulic lines and electrical connections. Do not use the product un-mounted. Attach this system securely to prevent damage, particularly in the event of an accident.

Do not mount the system so that wire connections are unprotected or are subject to pinching or damage from nearby objects. Before making or breaking power connections at the system power terminals, disconnect the +12V DC wire at the battery end. Confirm that your source unit and other equipment are turned off while connecting the input terminals. If you need to replace the power fuse, replace it only with a fuse identical to the provided fuse. Using a fuse of different type or rating may result in damage to the system, which is not covered by the manufacturer's warranty.

Do not install the speaker where it may be subject to excessive heat, moisture, dust or where they will be kicked repeatedly, brushed or bumped.
Make absolutely sure that the terminals for the speakers are connected to the proper outputs from the music source.

Never run the wiring on the outside of the vehicle or under it where it can be damaged by road hazards or the moving parts of the vehicle. Use existing wire channels, sills, panels and molding strips the vehicle to hide the wiring for safety and a neat appearance.

DISCLAIMER

IMPORTANT: Never cut any metal that is an integral part of the vehicles safety or structural support system. If you are unsure, it is best to have the speakers professionally installed by an Authorized Audiobahn Retailer. It could be a lot cheaper in the long run. Never sacrifice your safety for sound.

Specifications are subject to change without notice. For the most current specifications call Audiobahn or your local Authorized Audiobahn Retailer.

Technical Assistance(800)488-8595 /tech@audiobahninc.com

WARRANT INFORMATION

Congratulation on the purchase of your Audiobahn audio equipment!
Audiobahn produce are manufactured with the highest quality components and most advanced technology available. Because of this we recommend that you have your new Audiobahn products installed by a factory trained Authorized Audiobahn Retailer.

Audiobahn warrants all electronics to the original consumer/purchaser to be free from defects in materials and workmanship for a period of (1) year.

This warranty does not apply to:

- Any product, on which the seals and/or serial numbers have been broken, removed, tampered with, defaced or altered in any manner.
- Damage cause by abuse, misuse, accident, water or theft.
- Damage cause by improper installation.
- Any cost or expense related to removal and reinstallation.
- Subsequent damage to other component.
- Any products purchased outside the USA.

This warranty applies to the original consumer/purchaser and is not transferable. The original sales receipt from an Authorized Audiobahn Retailer is required to obtain warranty service.

Electronics found to be defective during the warranty period will be replaced. A defective product must be shipped prepaid to the Authorized Audiobahn Retailer from which the consumer purchased the product or to the Audiobahn Corporate Headquarters in Buena Park, California in the original carton and packing material or their equivalent. Any shipping loss or damage will be the responsibility of the consumer or the consumer's shipper. A consumer-returning product to the Corporate Headquarters must call (800) 488-8595 for a Return Authorization Number before sending the product. All shipments must have the Return Authorization Number clearly marked on the outside of the shipping carton.

Ship to:
Audiobahn Inc.
Warranty Repair Department
114 S. Berry Street
Brea, CA92821

Return Authorization Number:_____

NOTES:

Proud Supporters of

dB Drag Racing

USAC United States Auto Sound Competition

IASCA International Auto Sound Challenge Association

Hot Import Nights

NOPI

Import Revolution

CEA Consumer Electronics Association

MECA

SEMA Member

MECP mobile electronics certification program

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